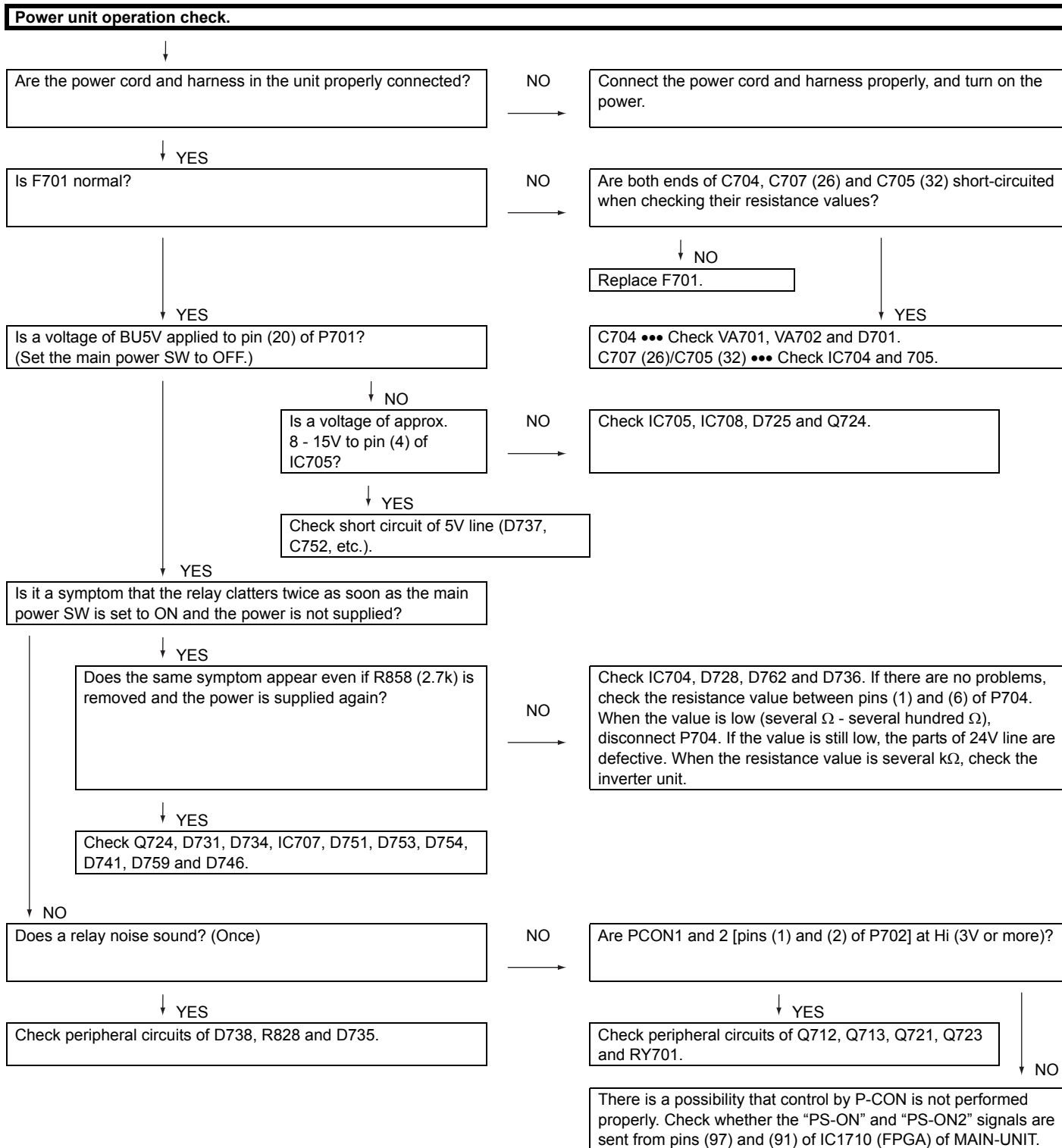


CHAPTER 6. TROUBLESHOOTING TABLE

[1] TROUBLESHOOTING TABLE

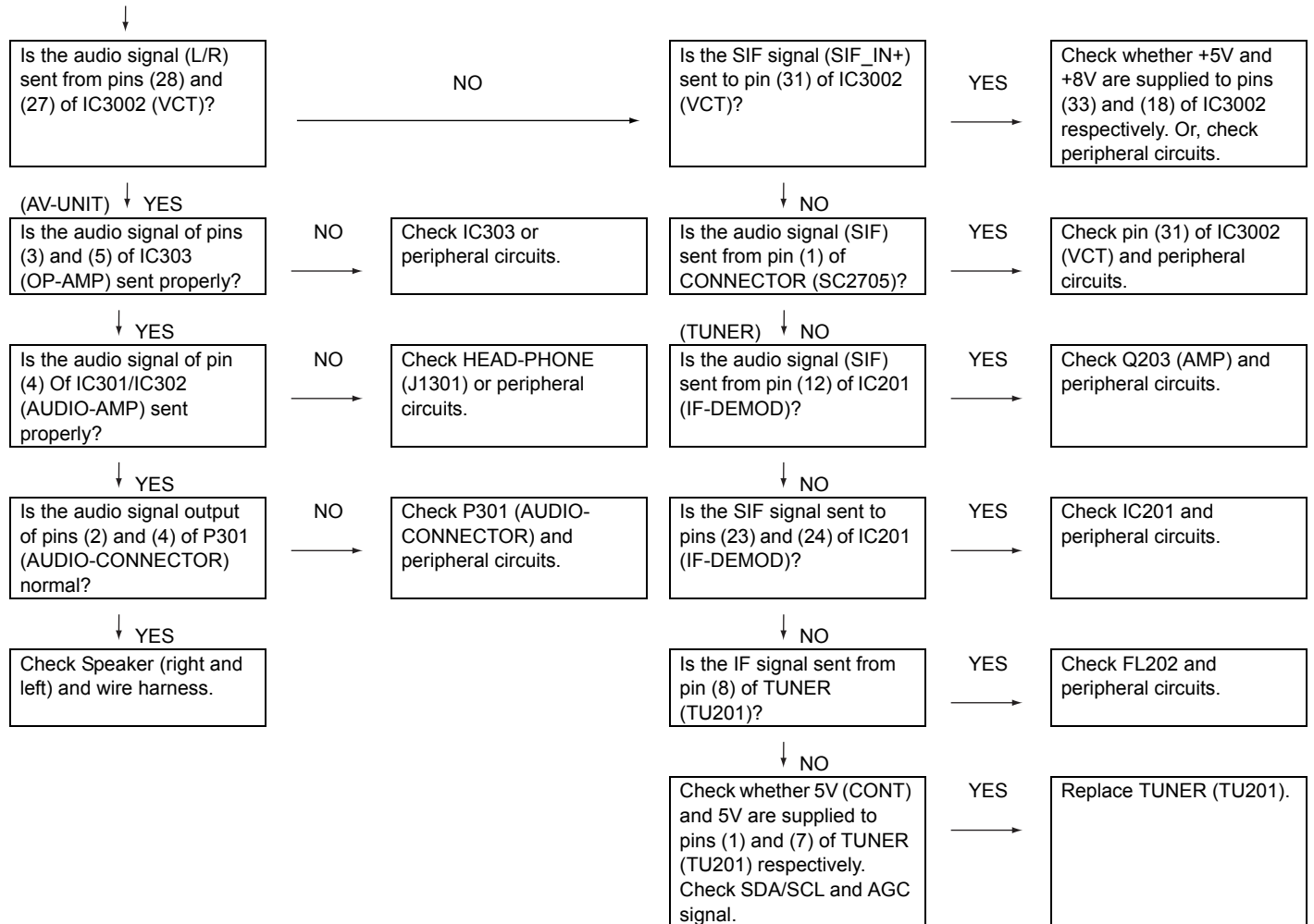


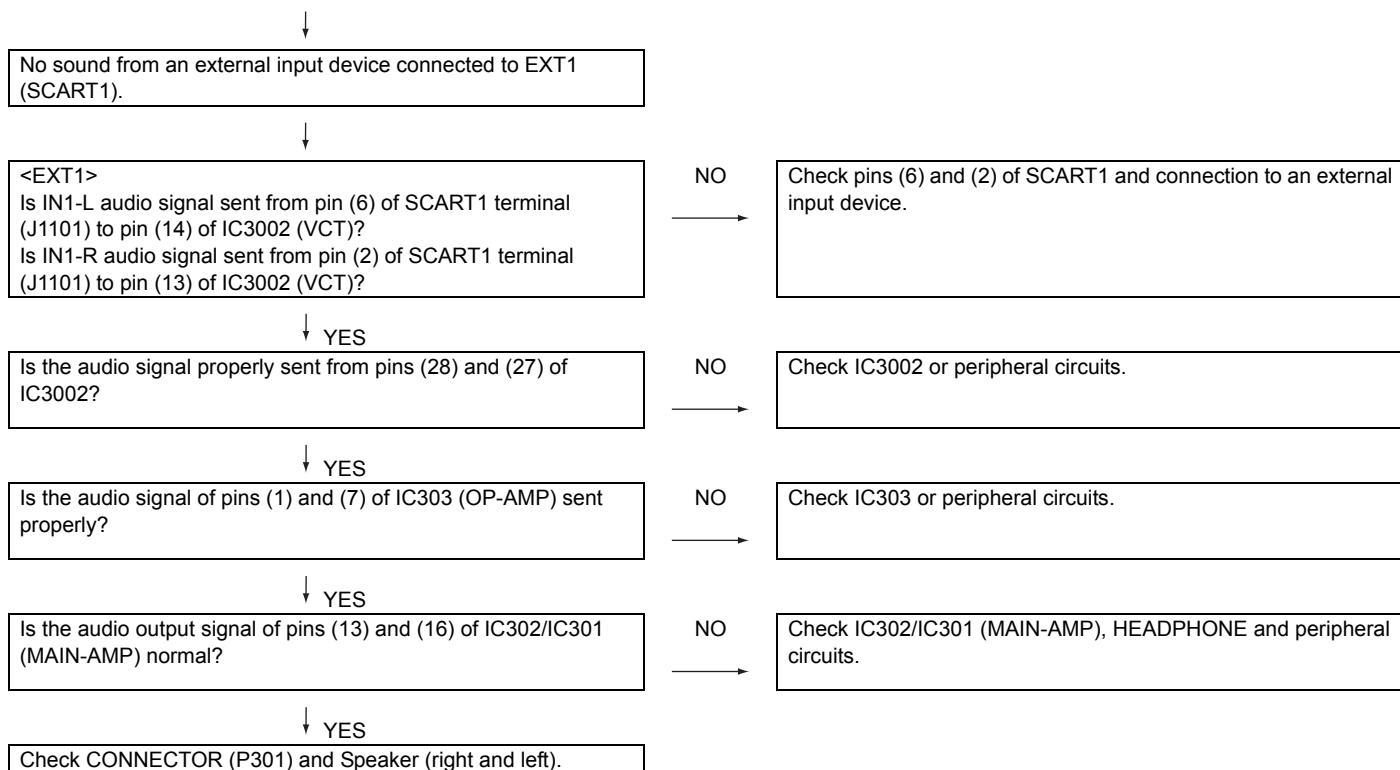
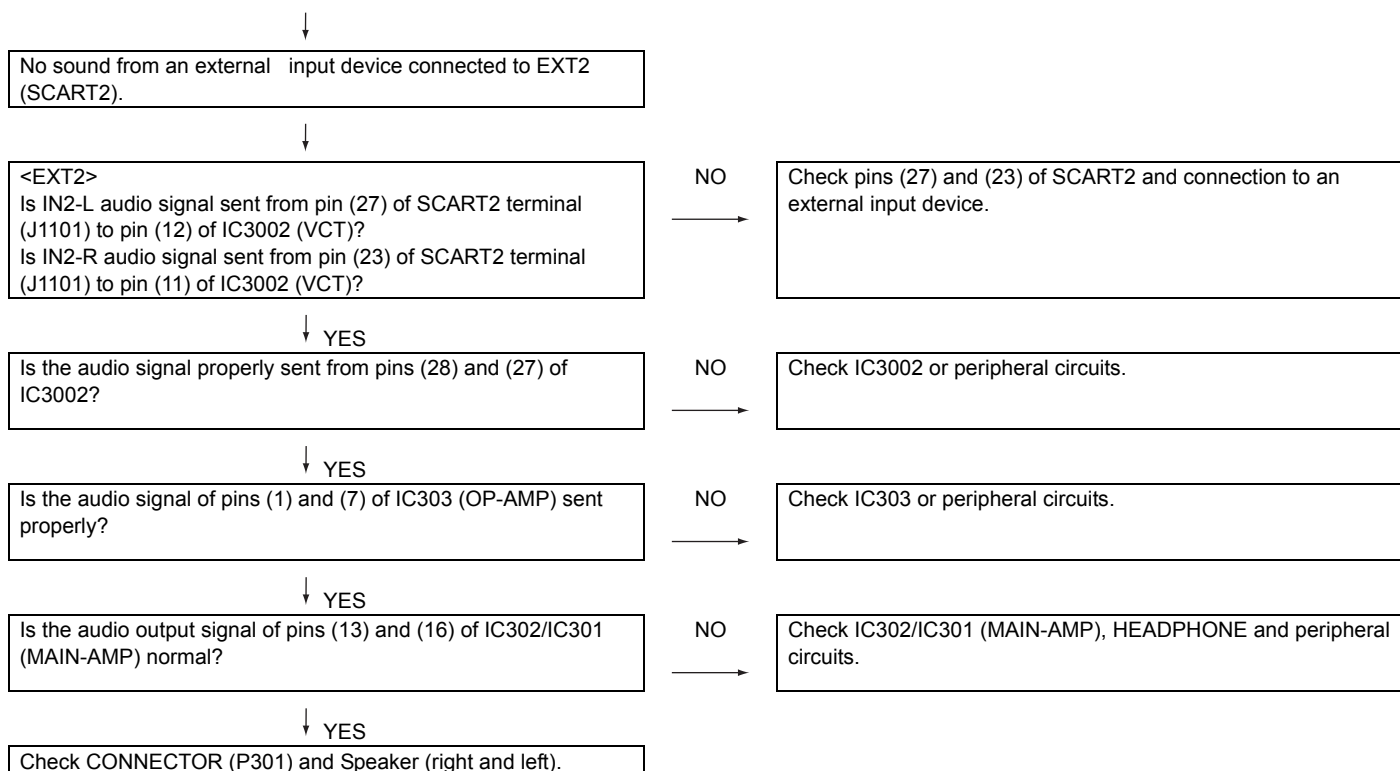
No sound (1) (during the reception of TV broadcasting)

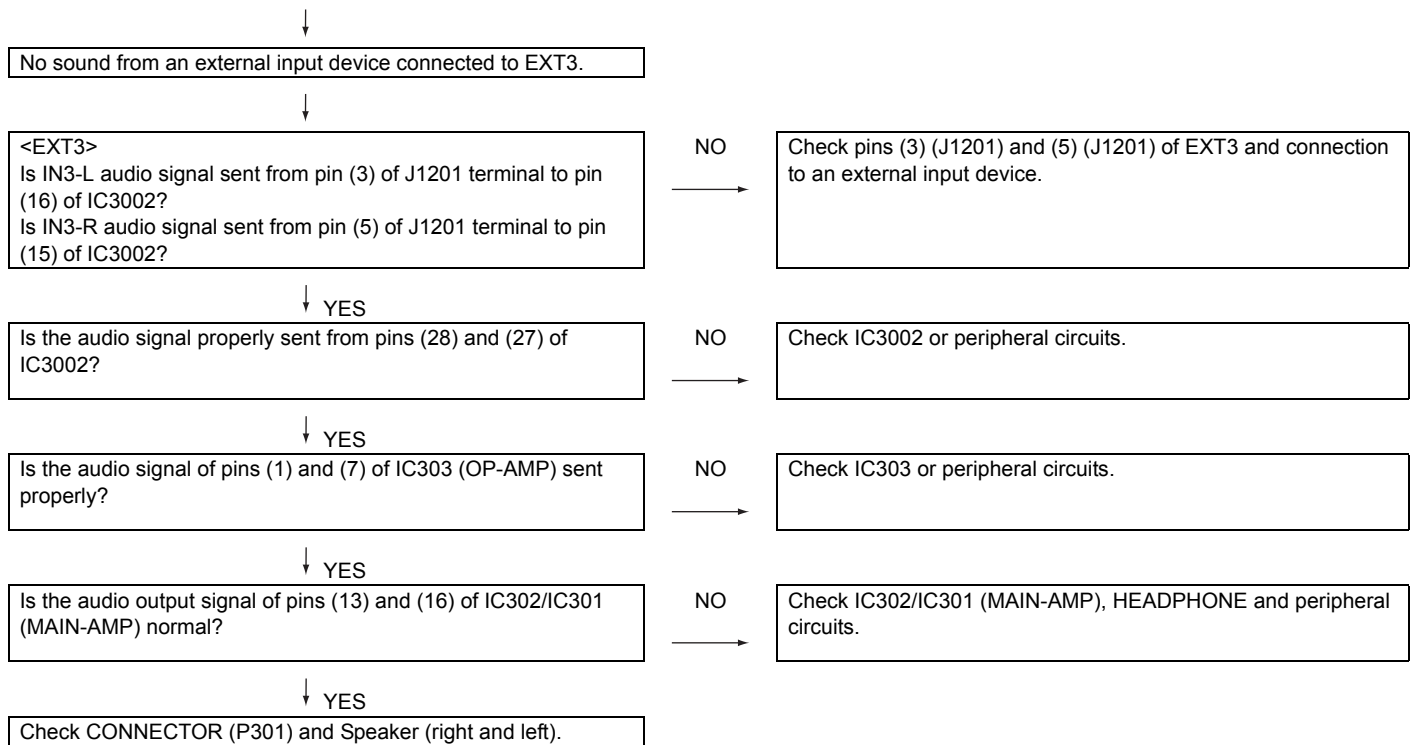
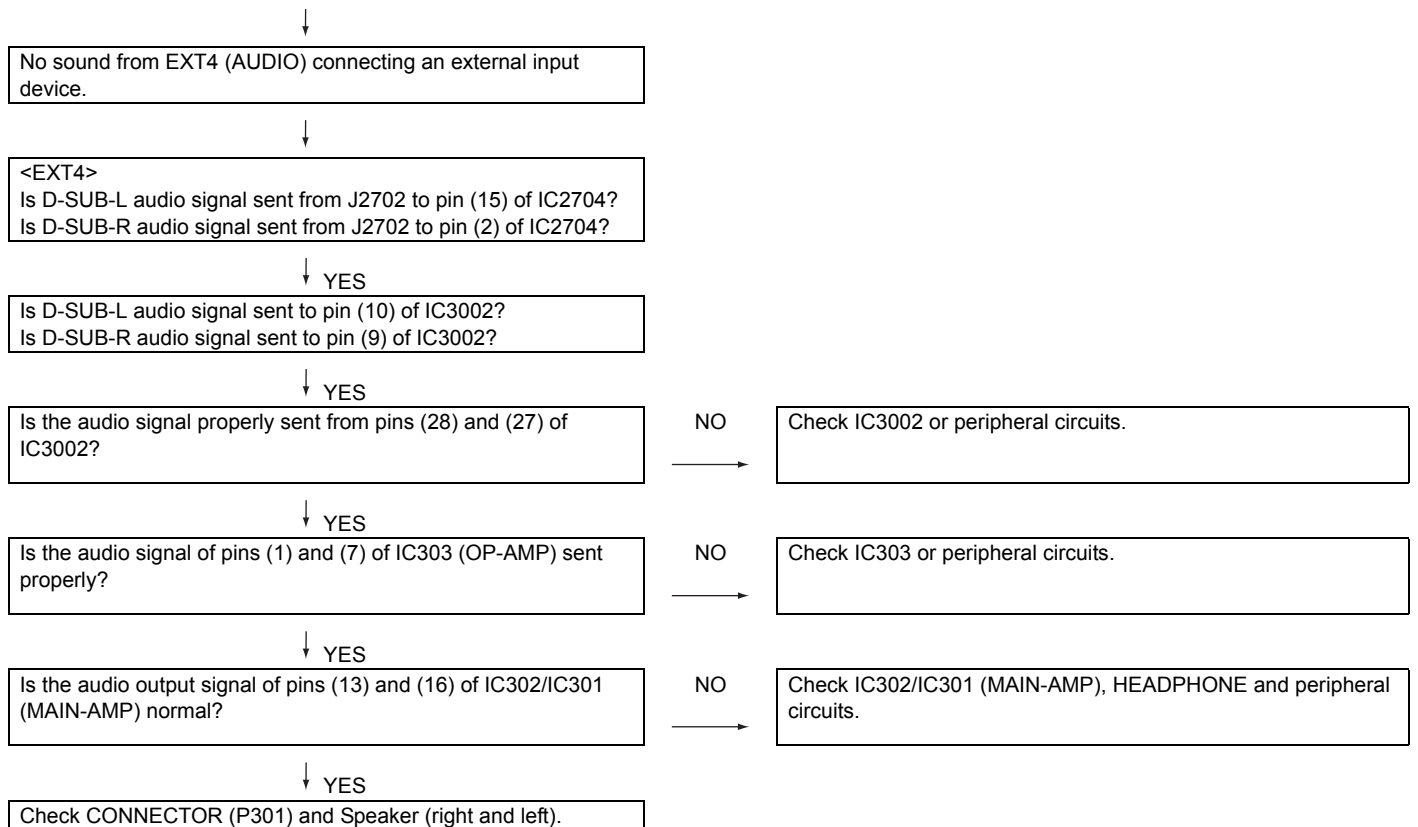
No audio output during UHF/VHF reception

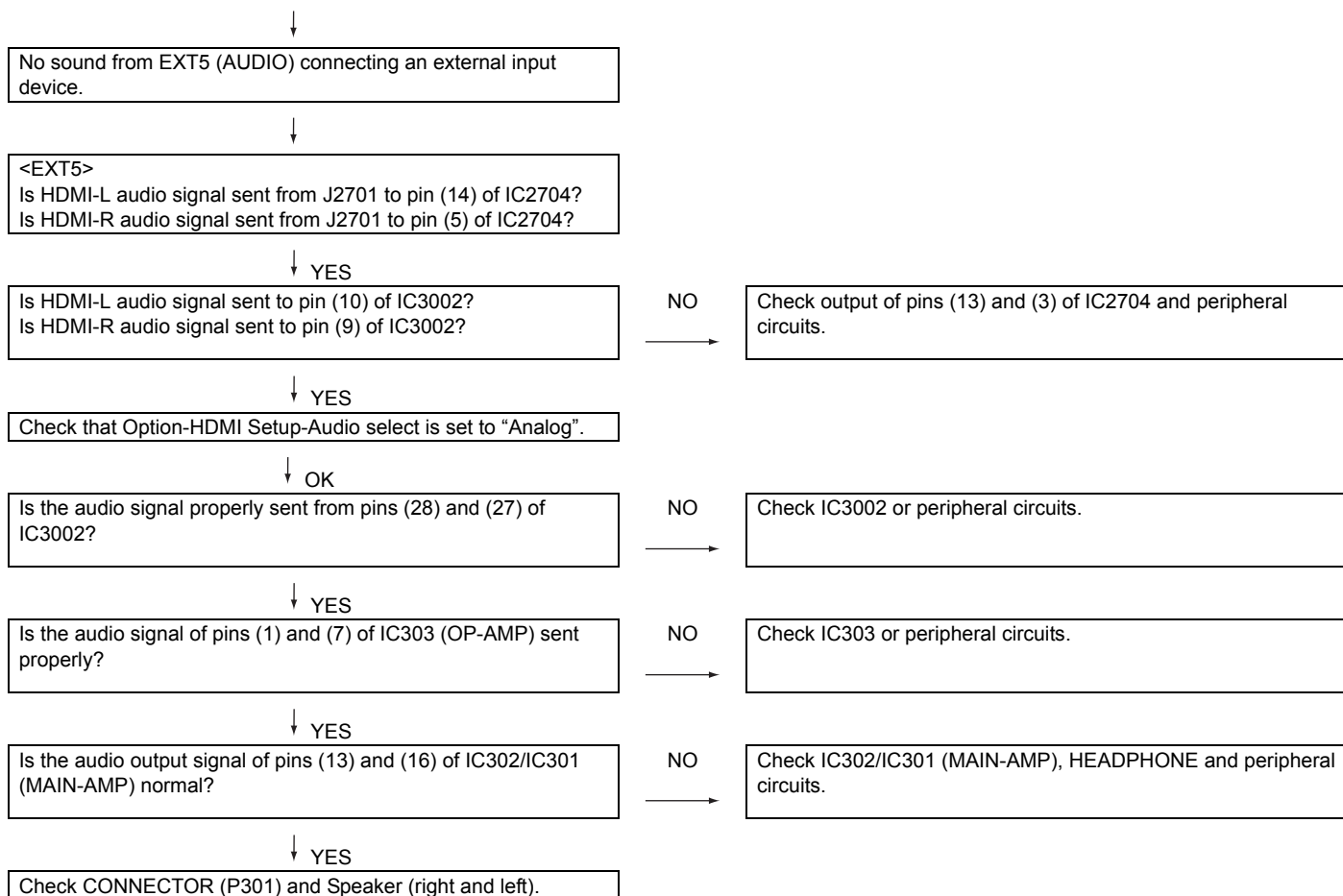
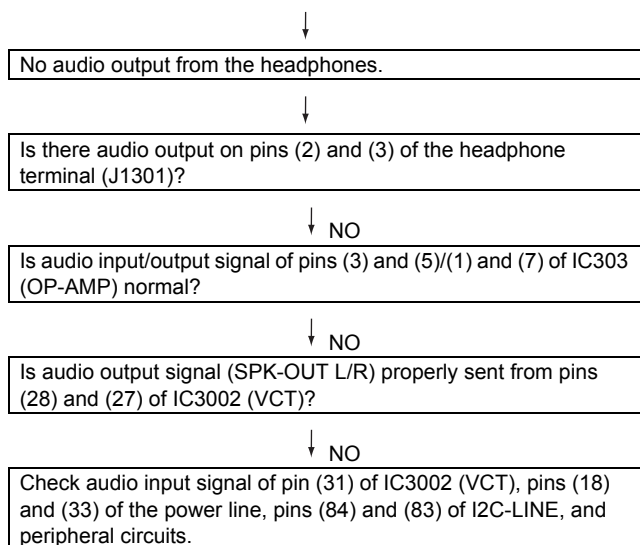
Checklist;

- 1) Is the volume set to MIN or MUTE on the remote control? ●●● Set the desired volume.
- 2) Are headphones connected to HEADPHONE (J1301)? ●●● Disconnect them.
- 3) Is ANT-CABLE disconnected or connected improperly? ●●● Connect it correctly as per the operation manual.



No sound from external input devices (2)**No sound from external input devices (2)**

No sound from external input devices (2)**No sound from external input devices (2)**

No sound from external input devices (2)**No sound except from speakers (3)**

No sound except from speakers (3)

No audio output from EXT1 (SCART) terminal.

Checklist:

- 1) Is the MUTE button on the remote control set to ON? ••• Set to OFF.
- 2) Check the connection to external devices. ••• Is there any improper connection?

Is audio signal sent to pins (3) and (1) of EXT1 (J1101)?

YES

Check the connection to EXT1 (J1101) and external devices.

NO

Is S-MUTE-LINE [IC1710 (pin 100)] or S2-MUTE-LINE [IC3003 (pin26)] at H?
(Check Q1106/Q1105 operation.)

NO

Is audio signal sent from pins (24) and (23) of IC3002?

NO

Check the power supply 8/5 V pins (18) and (33) of IC3002 and peripheral circuits.

YES

Check the audio signal output line from pins (24) and (23) of IC3002 to pins (3) and (1) of EXT1.

No sound except from speakers (3)

No audio output from EXT2 (SCART) terminal.

Checklist:

- 1) Is the MUTE button on the remote control set to ON? ••• Set to OFF.
- 2) Check the connection to external devices. ••• Is there any improper connection?

Is audio signal sent to pins (24) and (22) of EXT2 (J1101)?

YES

Check the connection to EXT2 (J1101) and external devices.

NO

Is S-MUTE-LINE [IC1710 (pin 100)] at H?
(Check Q1102/Q1101 operation.)

NO

Is audio signal sent from pins (22) and (21) of IC3002?

NO

Check the power supply 8/5 V pins (18) and (33) of IC3002 and peripheral circuits.

YES

Check the audio signal output line from pins (22) and (21) of IC3002 to Q1103/Q1104/Q1201/Q1202.

No sound except from speakers (3)

↓

No audio output from AUDIO OUTPUT terminal.

↓

Checklist:

- 1) Is the MUTE button on the remote control set to ON? ●●● Set to OFF.
 - 2) Check the connection to external devices. ●●● Is there any improper connection?
- ↓

Is audio signal sent to pins (13) and (15) [L/R (white) (red)] of AUDIO OUTPUT terminal (J1201)?

YES

→

Check the connection to AUDIO OUTPUT terminal (J1201) and external devices.

↓ NO

Is S-MUTE-LINE [IC1710 (pin 100)] at H?
(Check Q1204/Q1203 operation.)

↓ NO

Is audio signal sent from pins (22) and (21) of IC3002?

NO

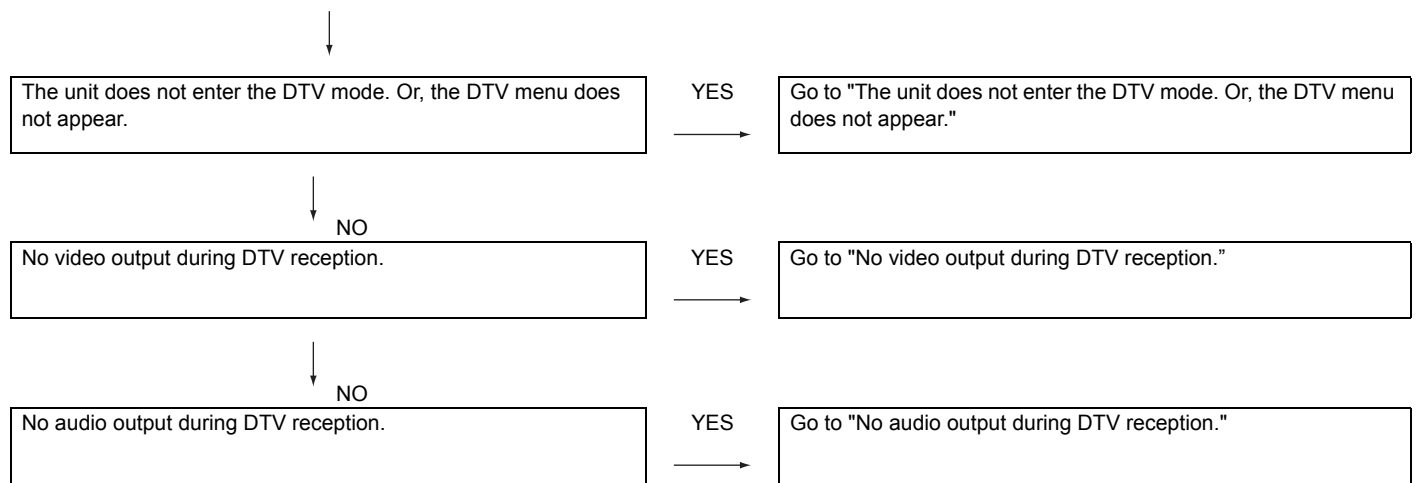
→

Check the power supply 8/5 V pins (18) and (33) of IC3002 and peripheral circuits.

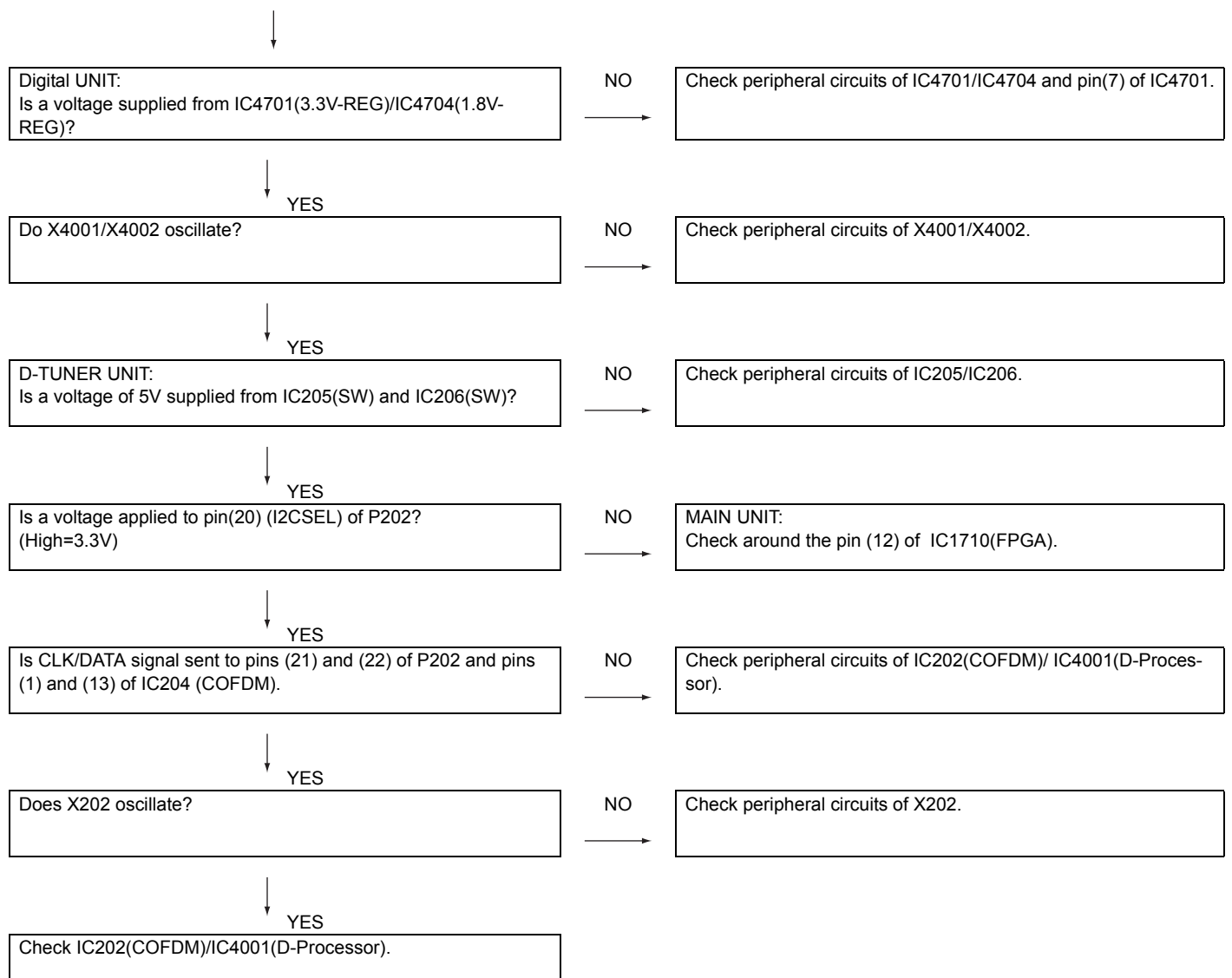
↓ YES

Check the audio signal output line from pins (22) and (21) of IC3002 to Q1103/Q1104/Q1201/Q1202.

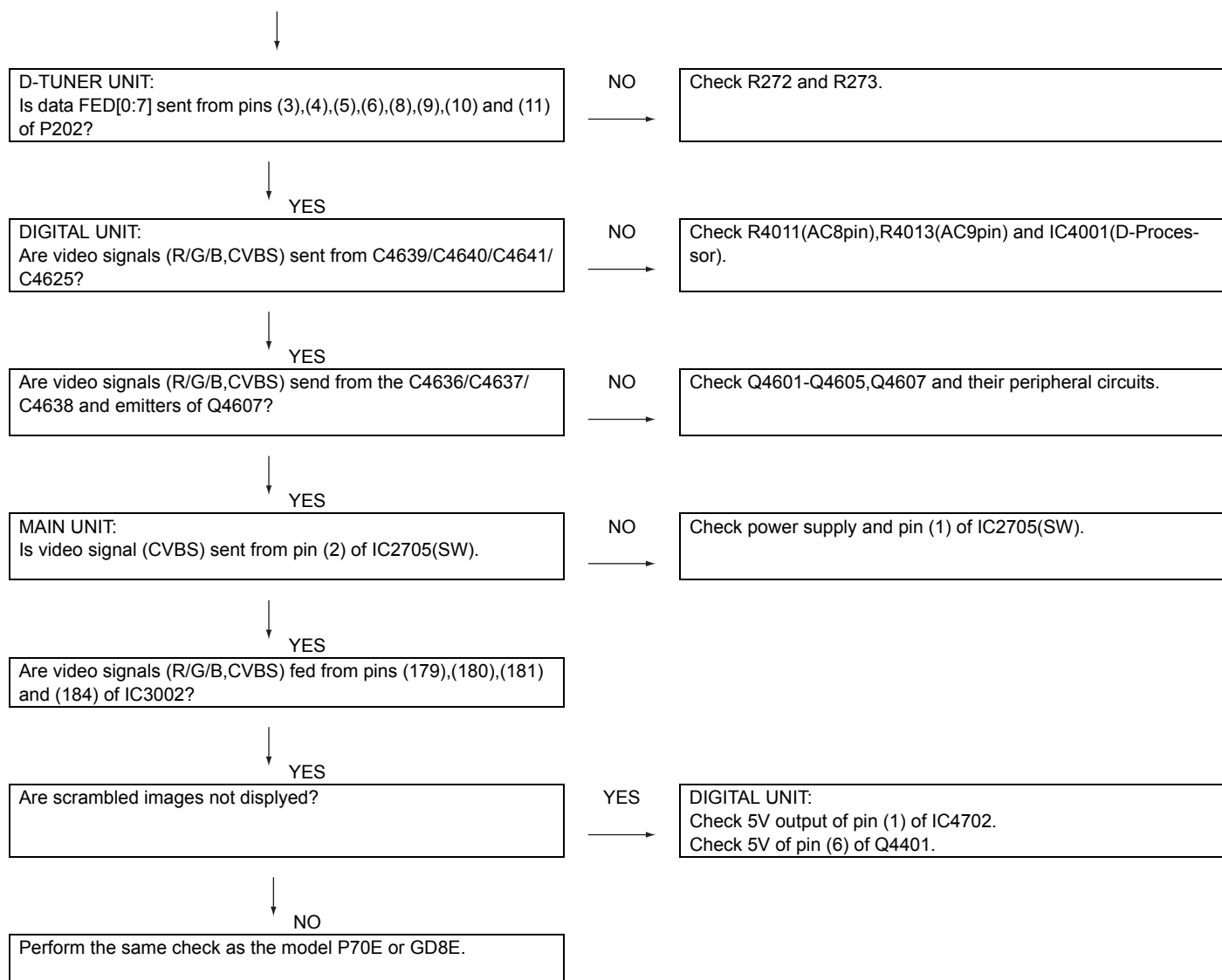
DTV troubleshooting



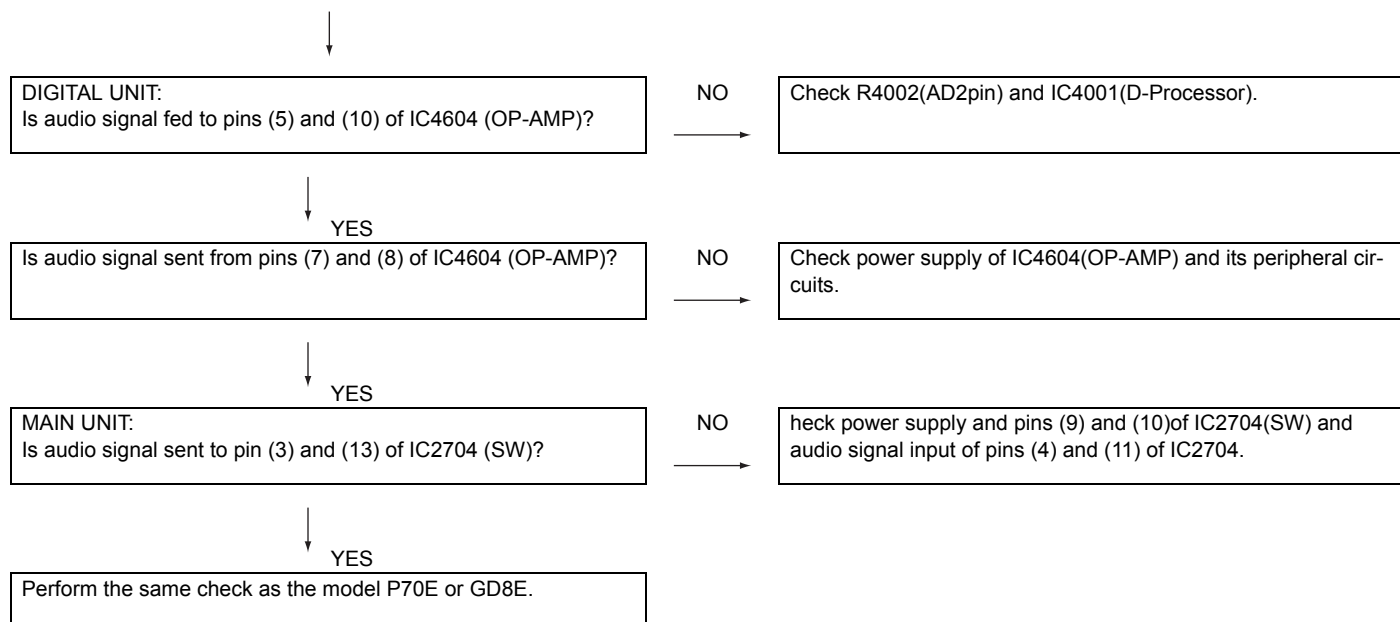
The unit does not enter the DTV mode. Or, the DTV menu does not appear.



No video output during DTV reception. Colour of Images are not right.



No audio output during DTV reception. Sound is low.



<On input of the tuner (U/V)>

No picture on the display (1)

No picture appears on LCD during the tuner (U/V) reception.

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●●● See the operation manual and set "INPUT SOURCE" to "TV".
- 2) Is MENU-PICTURE-Contrast/Brightness set to "MIN"? ●●● Set it to an appropriate level.
- 3) Is ANT-CABLE disconnected or connected improperly? ●●● Connect it correctly as per the operation manual.

↓ YES

Is level of pins (4) and (5) of tuner (TU201) and pins (10) and (11) of IC201 (IF-DEM0D) at H?

NO

These are communications lines for control (I2C). Follow the path and check whether they are forced to L (PULL_DOWN).

↓ YES

Is the video signal (IF) sent from pin (8) of tuner (TU201)?

NO

Check the tuner (TU201) and peripheral circuits.

↓ YES

Is video signal sent from pin (17) of IC201 (IF-DEM0D)?

NO

Check FL201 (SAW-FIL), IC201 and peripheral circuits.

↓ YES

Is the video signal VIN1 (ATUNER-CVBS) sent to pin (191) of IC3002 (VCT)?

NO

Check IC201 (IF-DEM0D), CONNECTOR (P201 /SC2705) and peripheral circuits.

↓ YES

Is LVDS video signal (LVDS_0N/0P-3N/3P) sent to pins (141)/(140) - (129)/(128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent to pins (132)/(131)?

NO

Check pins (192)/(170)/(133) of BU3.3V line of IC3002 (VCTP), pins (185)/(169)/(142) of 1.8V line and peripheral circuits.

↓ YES

Is LVDS video signal (LVDS_0N/0P-3N/3P) sent to pins (12)/(13) - (24)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21)/(22)?

NO

Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

No picture appears on EXT1 - connected monitor during the tuner (U/V) reception.

- 1) Are input terminal on back of TV and "INPUT SOURCE" button on the remote control set up correctly? ●●● See the operation manual and set "INPUT SOURCE" appropriately.
- 2) Is the Signal Type (item) in MENU-Option-Input Select equal to Signal Type of an external device? ●●● Set it to "CVBS", "Y/C" or "RGB".
- 3) Is ANT-CABLE disconnected or connected improperly? ●●● Connect it correctly as per the operation manual.
- 4) The picture is sent to the monitor in a CVBS signal if the source during display is TV, CVBS or Y/C of EXT1-3.
When sent by component, etc., that signal is not sent to the monitor.
- 5) When the monitor picture is not sent and is not displayed on the monitor, refer to "No picture" for each terminal.
- 6) The video output from EXT1 is not the monitor output (output of the picture now watching).
The picture of the last selected TV channel is always sent to EXT1. (Specification)

Check SCART1, external connection or input setting.

Check SCART1 (J1101) and peripheral circuits.

Check IC1102 (SW), Connector (P1101, SC2702) and peripheral circuits.

Check power supply of IC3002 (VCT) and peripheral circuits.

Check CONNECTOR (P201, SC2705) and peripheral circuits.

Check IC201, FL201 (SAW-FIL), Q202 and peripheral circuits.

Check 5/5 (CONT) V power supply pins (7) and (11), I2C line pins (5) and (4) of tuner (TU201) and peripheral circuits.

<During external connection>

No picture on the monitor (2)

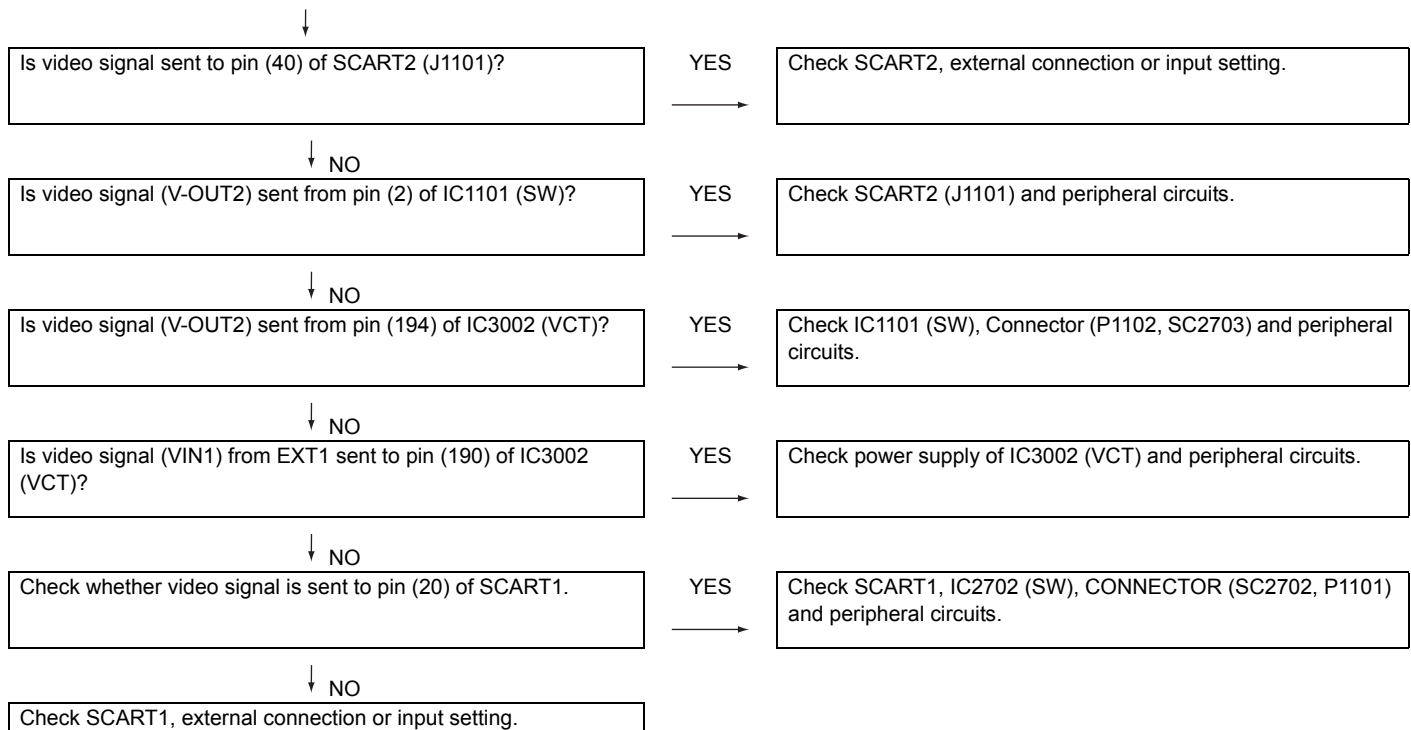
SCART2:

No picture from EXT1 appears on EXT2-connected monitor.

NOTE: Normally, if the screen during display is sent to EXT2, no picture is sent to EXT2.

Checklist:

- 1) Are input terminal on back of TV and "INPUT SOURCE" button  on the remote control set up correctly? ●●● See the operation manual and set "INPUT SOURCE" appropriately.
- 2) Is the Signal Type (item) in MENU-Option-Input Select equal to Signal Type of an external device? ●●● Set it to "CVBS", "Y/C" or "RGB".
- 3) Is ANT-CABLE disconnected or connected improperly? ●●● Connect it correctly as per the operation manual.
- 4) The picture is sent to the monitor in a CVBS signal if the source during display is TV, CVBS or Y/C of EXT1-3.
When sent by component, etc., that signal is not sent to the monitor.
- 5) When the monitor picture is not sent and is not displayed on the monitor, refer to "No picture" for each terminal.
- 6) The video output from EXT1 is not the monitor output (output of the picture now watching).
The picture of the last selected TV channel is always sent to EXT1. (Specification)



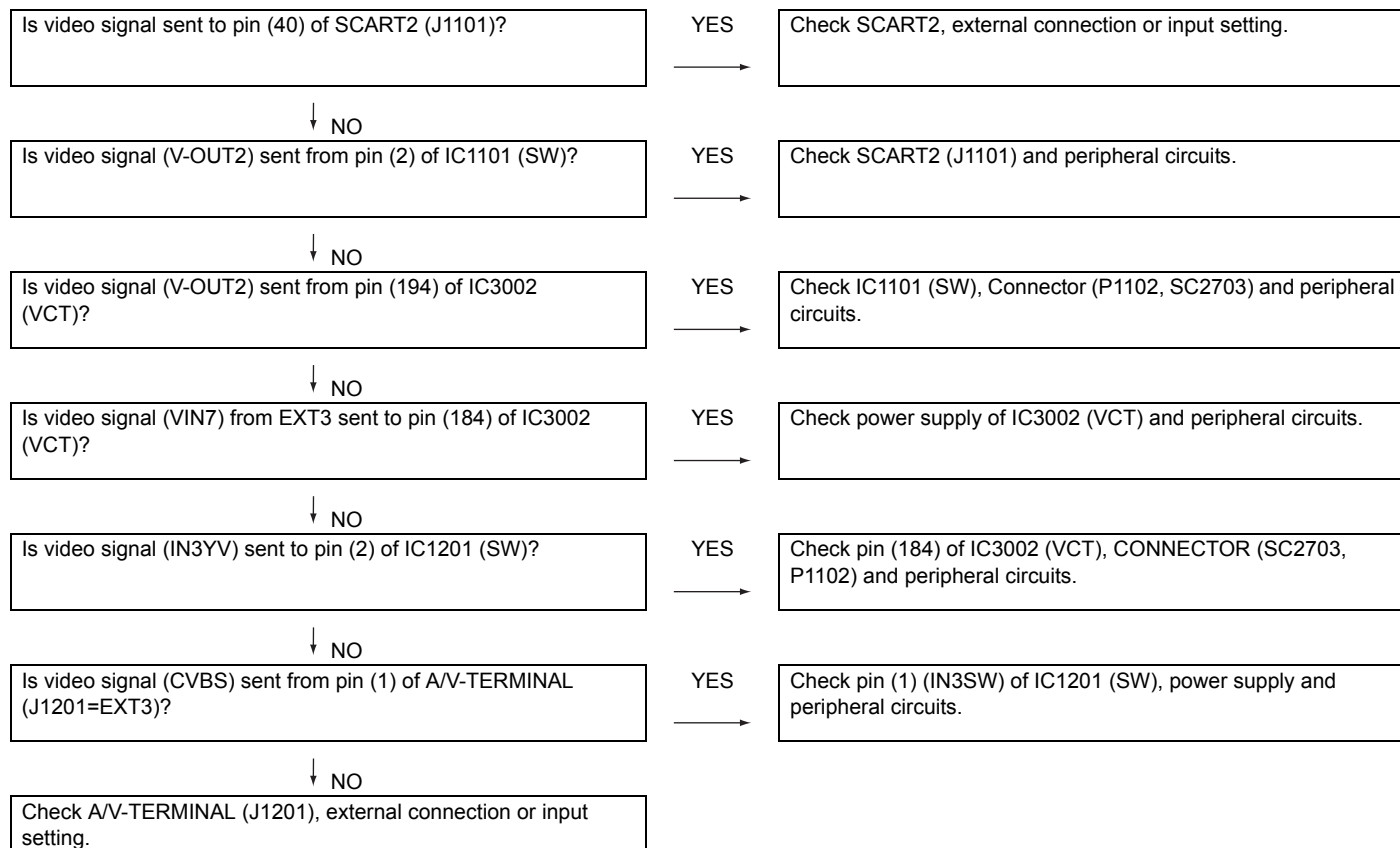
<During external connection>

No picture on the monitor (2)

SCART2:
No picture from EXT3 appears on EXT2- connected monitor.

Checklist:

- 1) Are input terminal on back of TV and "INPUT SOURCE" button  on the remote control set up correctly? ●●● See the operation manual and set "INPUT SOURCE" appropriately.
- 2) Is the Signal Type (item) in MENU-Option-Input Select equal to Signal Type of an external device? ●●● Set it to "CVBS", "Y/C" or "RGB".
- 3) Is ANT-CABLE disconnected or connected improperly? ●●● Connect it correctly as per the operation manual.
- 4) The picture is sent to the monitor in a CVBS signal if the source during display is TV, CVBS or Y/C of EXT1-3.
When sent by component, etc., that signal is not sent to the monitor.
- 5) When the monitor picture is not sent and is not displayed on the monitor, refer to "No picture" for each terminal.
- 6) The video output from EXT1 is not the monitor output (output of the picture now watching).
The picture of the last selected TV channel is always sent to EXT1. (Specification)



<When EXT1 is used for external input>

No picture on the display (3)

No EXT1-Composite output of the external input system.

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●● See the operation manual and set "INPUT SOURCE" to "EXIT".
- 2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to "MIN"? ●● Set it to an appropriate level.
- 3) Check the connection to the external device ●● Connect it correctly as per the operation manual for the device.

Is composite video signal sent to pin (20) of SCART1 (J1101)?

NO

Check external connection, input setting, SCART1 and peripheral circuits.

↓ YES

Is composite video signal (VIN_1) sent to input terminal pin (6) of IC2702 (SW)?

NO

Check CONNECTOR (SC2702/P1101), SCART1 (J1101) and peripheral circuits.

↓ YES

Is composite video signal (CVBS1=VIN2) sent to input terminal pin (190) of IC3002 (VCT)?

NO

Check IC2702 (SW) and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<When EXT1 is used for external input>

No picture on the display (3)

↓

No EXT1-RGB output of the external input system.

↓

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●● See the operation manual and set "INPUT SOURCE" to "EXIT".
 - 2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to "MIN"? ●● Set it to an appropriate level.
 - 3) Check the connection to the external device ●● Connect it correctly as per the operation manual for the device.
- ↓

Is RGB signal sent to pins (15),(11) and (7) of SCART1 (J1101)?

NO

→ Check external connection, input setting, SCART1 (J1101) and peripheral circuits.

↓ YES

Is RGB signal (R1/G1/B1=VIN_6/5/9) sent to input terminal pins (187), (175) and (182) of IC3002 (VCT)?

NO

→ Check CONNECTOR (SC2702/P1101), SCART1 (J1101) and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

→ Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

→ Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

→ Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<When EXT1 is used for external input>

No picture on the display (3)

↓

No EXT1-Y/C output of the external input system.

↓

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●●● See the operation manual and set "INPUT SOURCE" to "EXIT".
 - 2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to "MIN"? ●●● Set it to an appropriate level.
 - 3) Check the connection to the external device ●●● Connect it correctly as per the operation manual for the device.
- ↓

Is Y/C signal sent to pins (20) and (15) of SCART1 (J1101)?

NO

→ Check external connection, input setting, SCART1 (J1101) and peripheral circuits.

↓ YES

Is Y/C signal (VIN1=Y1/C1) sent to input terminal pins (190) and (187) of IC3002 (VCT)?

NO

→ Check CONNECTOR (SC2702/P1101), SCART1 (J1101) and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

→ Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

→ Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

→ Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<When EXT2 is used for external input>**No picture on the display (4)**

↓

No EXT2-Composite output of the external input system.

↓

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●● See the operation manual and set "INPUT SOURCE" to "EXT2".
 - 2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to "MIN"? ●● Set it to an appropriate level.
 - 3) Check the connection to the external device ●● Connect it correctly as per the operation manual for the device.
- ↓

Is composite video signal sent to pin (41) of SCART2 (J1101)?

NO

→ Check external connection, input setting, SCART2 (J1101) and peripheral circuits.

↓ YES

Is composite video signal (VIN-2) sent to input terminal pin (4) of IC2702 (SW)?

NO

→ Check CONNECTOR (SC2703/PI102), SCART2 (J1101) and peripheral circuits.

↓ YES

Is composite video signal (CVBS2=VIN2) sent to input terminal pin (190) of IC3002 (VCT)?

NO

→ Check IC2702 (SW) and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCT), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

→ Check pins (192), (170) and (133) of BU 3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCT), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

→ Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

→ Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<When EXT2 is used for external input>

No picture on the display (4)

No EXT2-RGB output of the external input system.

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●● See the operation manual and set "INPUT SOURCE" to "EXT2".
- 2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to "MIN"? ●● Set it to an appropriate level.
- 3) Check the connection to the external device ●● Connect it correctly as per the operation manual for the device.

Is RGB signal sent to pins (36), (32) and (28) of SCART2 (J1101)?

NO

Check external connection, input setting, SCART2 (J1101) and peripheral circuits.

↓ YES

Is RGB signal (R2/G2/B2=VIN_15/16/17) sent to Input terminal pins (178), (177) and (176) of IC3002 (VCT)?

NO

Check CONNECTOR (SC2703/P1102), SCART2 (J1101) and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCT), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

Check pins (192), (170) and (133) of BU 3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCT), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<When EXT2 is used for external input>**No picture on the display (4)**

No EXT2-Y/C output of the external input system.



Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●● See the operation manual and set "INPUT SOURCE" to "EXT2".
- 2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to "MIN"? ●● Set it to an appropriate level.
- 3) Check the connection to the external device ●● Connect it correctly as per the operation manual for the device.



Is Y/C signal sent to pins (41) and (36) of SCART2 (J1101)?

NO

Check external connection, input setting, SCART2 (J1101) and peripheral circuits.

↓ YES

Is Y/C signal (VIN2 =Y2/C2) sent to input terminal pins (190) and (178) of IC3002 (VCT)?

NO

Check CONNECTOR (SC2703/P1102), SCART2 (J1101) and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCT), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

Check pins (192), (170) and (133) of BU 3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCT), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<When EXT3 is used for external input>

No picture on the display (5)

No EXT3 output of the external input system.

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●●● See the operation manual and set "INPUT SOURCE" to "EXT3".
- 2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to "MIN"? ●●● Set it to an appropriate level.
- 3) Check the connection to the external device ●●● Connect it correctly as per the operation manual for the device.

Is composite video signal sent to pin (1) of A/V-IN-TERMINAL (J1201)?

NO

Check external connection, input setting, A/V-IN-TERMINAL (J1201) and peripheral circuits.

↓ YES

Is composite video signal (IN3-CVBS) sent to input terminal pin (4) of IC1201 (SW)?

NO

Check A/V-IN-TERMINAL (J1201) and peripheral circuits.

↓ YES

Is composite video signal (CVBS=VIN7) sent to input terminal pin (184) of IC3002 (VCT)?

NO

Check CONNECTOR (SC2703/P1102), IC3002 (VCT) and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

Is LCD5V supplied to pin (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<When EXT3 is used for external input>

No picture on the display (5)

No EXT3-Y/C output of the external input system.

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●● See the operation manual and set "INPUT SOURCE" to "EXT3".
- 2) Is MENU-PICTURE-CONTRAST/BRIGHTNESS set to "MIN"? ●● Set it to an appropriate level.
- 3) Check the connection to the external device ●● Connect it correctly as per the operation manual for the device.

Is Y/C signal sent to pins (11) and (7) of S-TERMINAL (J1201)?

NO

Check external connection, input setting, S-TERMINAL (J1201) and peripheral circuits.

↓ YES

Is Y3 signal (IN3-Y) sent to Input terminal pin (6) of IC1201 (SW)?

NO

Check S-TERMINAL (J1201) and peripheral circuits.

↓ YES

Is Y/C signal (VIN7/VIN8) sent to input terminal pins (184) and (183) of IC3002 (VCT)?

NO

Check CONNECTOR (SC2703/P1102), IC3002 (VCT) and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

Is LCD5V supplied to pin (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<When EXT4 is used for external input>

No picture on the display (6)

No EXT4 (15pin-D-SUB terminal) output of the external input system.

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●●● See the operation manual set "INPUT SOURCE" to "EXT4".
- 2) Connect the included D-SUB-Adapter-Cable to the COMPONENT terminal of an external device. ●●● See the operation manual (use a commercially available Component-Cable to connect to the external device).
- 3) Is ANT-CABLE disconnected or connected improperly? ●●● Connect it correctly as per the operation manual.

↓ YES

Is "EXT4" selected with "INPUT SOURCE" button  on the remote control?

NO

Select "EXT4" with "INPUT SOURCE" button  on the remote control.

↓ YES

Is D-SUB-COMPONENT signal (PCV_R/G/B) sent to pins (1), (2) and (3) of EXT4-TERMINAL (SC2303)?

NO

Check D-SUB-adaptor and external connection.

↓ YES

Is D-SUB-COMPONENT signal (PCV_R/G/B=VIN19/20/21) sent to pins (174), (173) and (172) of IC3002 (VCT)?

NO

Check EXT4-TERMINAL and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

Check CONNECTOR (P2305, CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)? Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<When EXT5 is used for external input>**No picture on the display (7)**

No EXT5 (HDMI) output of the external input system.

Checklist:

- 1) Is "INPUT SOURCE" button  on the remote control set up correctly? ●● See the operation manual and set "INPUT SOURCE" to "EXT5".
- 2) Have you checked the type video signal sent from HDMI-connected external device? ●● Confirm the type (it should "RGB", "YCbCr 4:4:4" or "YCbCr 4:2:2").
- 3) Have you checked the type of Color Matrix sent from HDMI-connected external device? ●● Confirm the type (it should be "ITU601" or "ITU709".)
- 4) Is ANT-CABLE disconnected or connected improperly? ●● Connect it correctly as per the operation manual.

↓ YES

Is "EXT5" selected with "INPUT SOURCE" button  on the remote control?

NO

Select "EXT5" with "INPUT SOURCE" button  on the remote control.

↓ YES

Is the type of video signal (Signal Type) from HDMI-connected external device set?

NO

From MENU-Option-HDMI Setup-Signal Type, select a signal type ("RGB", "YCbCr 4:4:4" or "YCbCr 4:2:2").

↓ YES

Is the type of color signal (Color Matrix) from HDMI-connected external device set?

NO

From Option-HDMI Setup-Color Matrix, select a color signal type ("AUTO", "ITU601" or "ITU709").

↓ YES

Is TMDS data (RX*±signal) sent to pins (1) - (12) of EXT5 (HDMI) terminal (SC1901)?

NO

Is I2C signal (SDA/SCL signal) sent to pins (16) and (15) of EXT5 (HDMI) terminal?
Check external connection and peripheral circuits.

↓ YES

Is 8bit-DIGITAL signal (HDMI- R/G/B) sent from pins (110) - (144) of IC1905 (HDMI-RECEIVER)?

NO

Check power supply (3.3/1.8V) pins (99) and (74) of IC1905, SDA/SCL signal pins (29) and (30), and peripheral circuits.

↓ YES

Is 8bit-DIGITAL signal (HDMI- R/G/B) sent to pins (73) - (50) of IC3002 (VCT)?

NO

Check SDA3/SCL3 signal pins (27) and (28), interface between IC1905 and IC3002, and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent from pins (141) and (140) - (129) and (128) of IC3002 (VCTP), and is CLK signal (LVDS_CN/CP) sent from pins (132) and (131)?

NO

Check pins (192), (170) and (133) of BU3.3V power line and pins (185), (169) and (142) of BU1.8V power line of IC3002 (VCTP), and peripheral circuits.

↓ YES

Is LVDS signal (LVDS_0N/0P-3N/3P) sent to pins (12) and (13) - (24) and (25) of CONNECTOR CN1 in LCD-CONT-UNIT, and is CLK signal (LVDS_CN/CP) sent to pins (21) and (22)?

NO

Check CONNECTOR (P2305,CN1) and HARNESS WIRE (LV).

↓ YES

Is power (LCD5V) supplied to pins (2) - (5) of CONNECTOR CN1 in LCD-CONT-UNIT?

NO

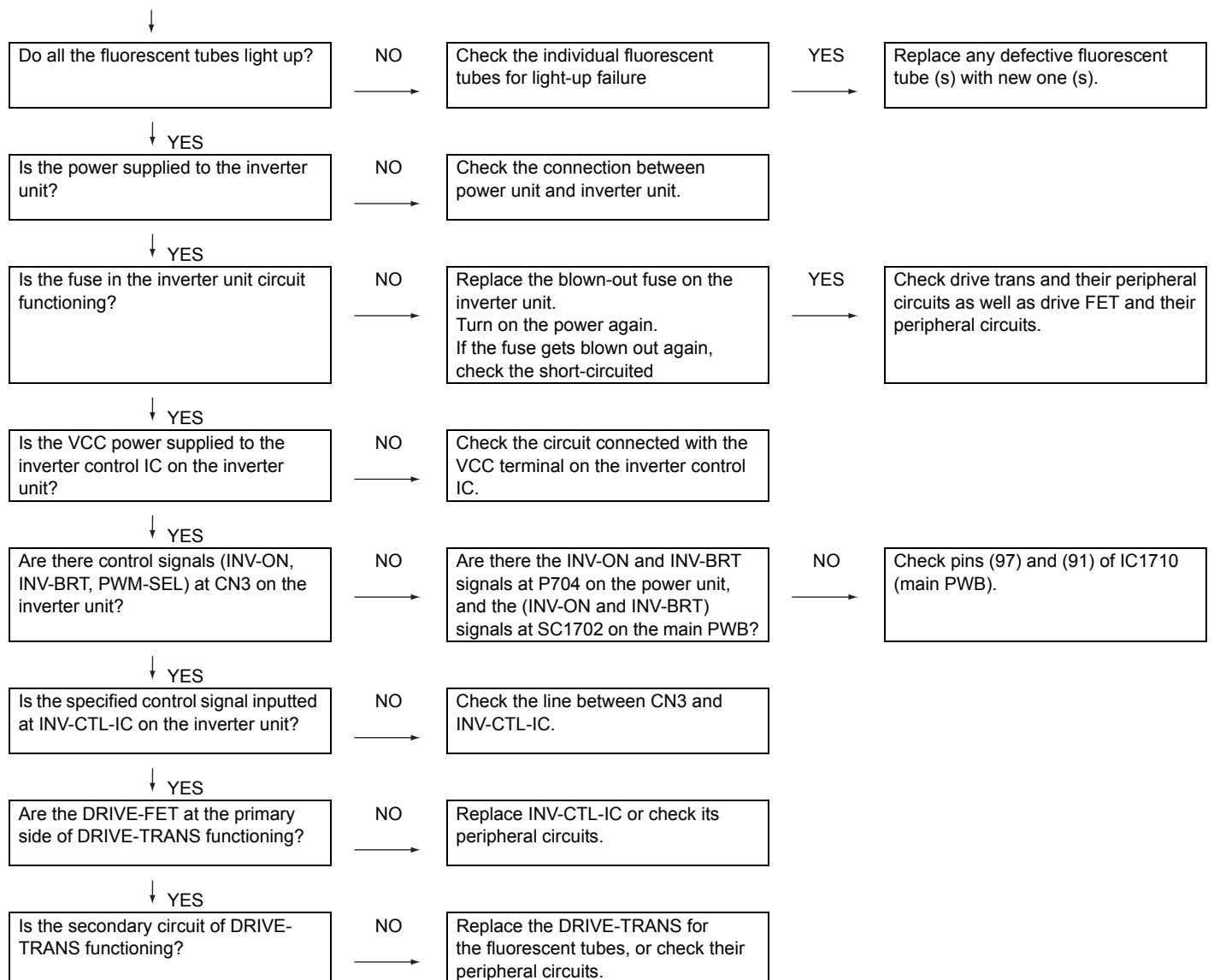
Is LCD5V supplied to pins (31) - (28) of CONNECTOR (P2305)?
Check HARNESS WIRE (LV).

↓ YES

Replace LCD-CONT-UNIT.

<26/32">

Backlight failure to light up



LCD failure	→	Does a single or several vertical stripes appear on the LCD screen?	→	Replace the LCD panel.
LCD failure	→	Does a single or several horizontal stripes appear on the LCD screen?	→	Replace the LCD panel.
LCD failure	→	Do luminescent or black dots appear on the screen?	→	Replace the LCD panel.
LCD failure	→	Is the on-screen image rippling or distorted?	→	Replace the LCD panel.
LCD failure	→	The backlight functions. Does not the image come out in the LCD screen (screen black)?	→	Replace the LCD control unit
LCD failure	→	Does the entire LCD screen look whitish all over?	→	Replace the LCD control unit
LCD failure	→	Does the QS drive function?	→	Replace the LCD control unit
LCD failure	→	Are there data bit drop-outs? (No solution even when turning on and off the QS drive)	→	Replace the LCD control unit
LCD failure	→	Is the gamma correction as specified?	→	Replace the LCD control unit